

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:.

**Listing of Claims:**

1. (original) A method for measuring blood oxygen saturation, comprising the steps of:  
providing a sensor and a pulse oximeter;  
selecting a light source and a light detector;  
optimizing a wavelength spectrum of light received by said light detector from said light source for an oxygen saturation reading less than 80 percent;  
placing said sensor on a patient; and  
determining said blood oxygen saturation using said sensor and said pulse oximeter.

2-52. (canceled)